AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

- (Currently Amended) A method for automatically determining a foreground color for a digital image, comprising:
- (a) automatically dividing the colors of the pixels of at least a part of the digital image into a number of color clusters in a color space; [[and]]
- (b) automatically segmenting the part of the digital image into regions according to the color clusters;
- [[(b)]] (c) automatically grouping the color clusters into interference clusters comprising a pixel in a selected region of the image and benign clusters comprising no pixel in the selected region; for at least one color cluster, automatically selecting a color being related to the at least one color cluster according to predetermined criteria.
- (d) automatically selecting a foreground color being related to all interference clusters according to predetermined criteria; and
- (e) one of automatically displaying, storing and communicating data representing the selected foreground color.
- 2. (Original) The method according to claim 1, wherein said selecting at (b) further comprises:

selecting a harmonious color set with respect to the color clusters; and testing the harmonious color set for legibility.

 (Original) The method according to claim 2, wherein said testing the harmonious color set for legibility further comprises:

computing local measures of contrast between background and foreground in a neighborhood of a predetermined foreground region; and

computing a legibility score representative of a lowest few contrast values observed over the predetermined foreground region.

 (Currently Amended) The method according to claim 2, wherein [[a]] the foreground color is selected according to a legibility criterion for a predetermined foreground region by:

computing local measures of contrast between background and foreground in a neighborhood for a predetermined foreground region; and

computing a legibility score representative of a lowest few contrast values observed over the predetermined foreground region.

- (Original) The method according to claim 1, wherein said dividing at (a) comprises converting the image data to a predetermined color format.
- (Original) The method according to claim 1, wherein said dividing at (a) comprises using an Expectation-Maximization clustering.
- 7. (Original) The method according to claim 1, wherein said dividing at (a) comprises determining the number of clusters using a model selection method one of a Bayesian Information Criterion and a Universal Model-based Minimum Description Length Principle.

(Canceled)

 (Currently Amended) The method according to claim [[8]] 1, wherein the segmenting comprises using one of a normalized cut criterion and an energyminimization method.

(Canceled)

 (Currently Amended) The method according to claim 1, wherein[[a]] the foreground color is selected according to a legibility criterion for a predetermined foreground region.

- 12. (Currently Amended) The method according to claim 11, wherein [[a]] the foreground color is selected based on a likelihood ratio of the hypothesis that the digital image contains the foreground region and the hypothesis that the digital image does not contain the foreground region.
- 13. (Currently Amended) The method according claim 12, wherein selecting [[a]] the foreground color comprises computing the legibility of $\min_{w \in I} \max_{x \in C_i} r(x+y)$, wherein $r(x) = h \log \frac{\Pr(I(x)|T)}{\Pr(I(x)|B)}$, C_x^2 is a disc of radius $\mathcal E$ and wherein $\Pr(I(x)|T)$ denotes heuristic or other models of likelihoods that the image I contains text T at a given pixel x and $\Pr(I(x)|B)$ denotes heuristic or other models of likelihoods that the image I contains background B at the given pixel x.
- (Currently Amended) The method according to claim 1, wherein [[a]] the foreground color is selected according to a color harmony criterion.
- 15. (Currently Amended) The method according to claim 14, wherein [[a]] the foreground color is selected according to at least one of a monotonic, a complementary, and a p-adic color harmony criterion in HSL space.
- 16. (Currently Amended) The method according to claim 14, wherein [[a]] the foreground color is selected according to a color harmony criterion with respect to at least one interference cluster.
- (Currently Amended) The method according to claim 14, wherein [[a]] the foreground color is selected according to a color harmony criterion with respect to at least one benign cluster.
 - 18. (Currently Amended) The method according to claim 14, wherein [[a]] the

foreground color is selected according to a color harmony criterion with respect to at least one interference cluster and at least one benign cluster.

- 19. (Currently Amended) The method according to claim 1, wherein said selecting at [[(b)]] (d) comprises determining a color subset according to a color harmony criterion and maximizing a legibility function in the color subset.
- 20. (Currently Amended) The method according to claim 1, wherein [[a]] the foreground color [[c]] is selected for which $\sum_{i=1}^{N} \alpha_i I(c, P_i) + \sum_{k=1}^{N} \gamma_k h(c, K_k)$ is maximal, wherein c denotes the foreground color, P_i denote the interference clusters, K_i denote all clusters, both benign and interference, I is a legibility function in color space, h is a color harmony function, and α and γ_k are weighting factors.
- 21. (Currently Amended) The method according to claim 1, further comprising one of displaying and storing a predetermined object using the selected <u>foreground</u> color together with the digital image.
- (Currently Amended) A system for automatically determining a foreground color for a digital image, comprising:

a color clustering module configured to automatically divide the colors of the pixels of at least a part of the digital image into a number of color clusters in a color space; [[and]]

a color segmentation module configured to automatically segment the part of the digital image into regions according to the color clusters; and

a color selection module configured to automatically select, for at least one color cluster, a color being related to the at least one color cluster according to predetermined criteria group the color clusters into interference clusters comprising a pixel in a selected region of the image and benign clusters comprising no pixel in the selected region, and automatically select a foreground color being related to all interference clusters according to predetermined criteria:

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wherein the system is configured to one of displaying, storing and communicating data representing the selected foreground color.

- 23. (Canceled)
- 24. (Canceled)
- 25. (Canceled)